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Examiner: Reimers, Annette R Docket No.: 101896-245 (DEP5277)

## **AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) An implantable spinal cross-connector, comprising:

<u>first and second a-central portions longitudinally slidably matable to one another, at least one of</u>
<u>the first and second central portions including with-</u>at least one connector member formed on a terminal end thereof, the at least one connector member having

first and second opposed jaws, at least one of the jaws being selectively movable between a first, open position wherein the first and second jaws are positioned a distance apart from one another, and a second, closed position, wherein the first and second jaws are adapted to engage a spinal fixation element therebetween, and at least one of the jaws being unitary with the central portion, and

a locking mechanism having a shank that is receivable within a non-expandable bore formed in the connector member, the locking mechanism being adapted to come into contact with each of the first and second jaws to selectively lock at least one of the first and second jaws in a fixed position.

- 2. (Original) The implantable spinal cross-connector of claim 1, wherein the locking mechanism includes a non-eccentric head formed on a proximal end of the shaft.
- 3. (Original) The implantable spinal cross-connector of claim 2, wherein the non-expandable bore formed in the at least one connector member includes an enlarged proximal opening that is adapted to seat a non-eccentric head of the locking mechanism.
- 4. (Original) The implantable spinal cross-connector of claim 3, wherein the second jaw on the at least one connector member is pivotally mated to the first jaw, and wherein the non-eccentric head of the locking mechanism is effective to move the second jaw from the open position to the closed position when the head is disposed within the enlarged proximal opening of the non-expandable bore.
- 5. (Original) The implantable spinal cross-connector of claim 1, wherein the shank on the locking mechanism and the non-expandable bore include complementary threads formed thereon.

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6. (Original) The implantable spinal cross-connector of claim 1, wherein the locking mechanism is adapted to pull the first and second jaws toward one another into the second, closed position when the locking mechanism is advanced into the non-expandable bore.

- 7. (Withdrawn) The implantable spinal cross-connector of claim 1, wherein the locking mechanism is adapted to push the second jaw toward the first jaw into the second, closed position when the locking mechanism is advanced into the non-expandable bore.
- 8. (Original) The implantable spinal cross-connector of claim 1, wherein the first and second jaws define a substantially C-shaped recess therebetween.
- 9. (Original) The implantable spinal cross-connector of claim 1, wherein the first and second jaws include a slot formed therebetween and adapted to allow movement of the first and second jaws between the first, open position and the second, closed position.
- 10. (Original) The implantable spinal cross-connector of claim 9, wherein the non-expandable bore extends through the first and second jaws across the slot such that the locking mechanism is effective to close the slot when the locking mechanism is advanced into the non-expandable bore, thereby moving the first and second jaws from the first, open position to the second, closed position.
- 11. (Original) The implantable spinal cross-connector of claim 10, wherein the non-expandable bore includes a non-threaded portion formed in the first jaw and a threaded portion formed in the second jaw, and wherein the shank of the locking mechanism includes a non-threaded proximal portion that is adapted to sit within the non-threaded portion of the non-expandable bore formed in the first jaw, and a threaded distal portion that is effective to mate with the threaded portion of the non-expandable bore formed in the second jaw.
- 12. (Original) The implantable spinal cross-connector of claim 11, wherein the non-threaded proximal portion of the shank of the locking mechanism further includes a head formed thereon that is receivable within an enlarged opening of the non-expandable bore formed in the first jaw.

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13. (Original) The implantable spinal cross-connector of claim 1, wherein the first jaw is integrally formed with the at least one connector, and wherein the second jaw is independent from and pivotally

mated to the first jaw.

14. (Withdrawn) The implantable spinal cross-connector of claim 13, further comprising a pivot pin

extending through the first and second jaws to allow pivotal movement of the second jaw with respect to

the first jaw.

15. (Original) The implantable spinal cross-connector of claim 13, wherein the locking mechanism

includes a head formed on the shank that is receivable within an enlarged opening formed in the non-

expandable bore, and wherein the head is adapted to pivotally move the second jaw from the first, open

position to the second, closed position when the locking mechanism is disposed within the non-

expandable bore and the head is disposed within the enlarged opening.

16. (Original) The implantable spinal cross-connector of claim 13, wherein the non-expandable

bore is formed in the first jaw and it includes an enlarged opening formed therein for seating a head

formed on the shank of the locking mechanism, the enlarged opening being formed adjacent to the

second jaw such that the head of the locking mechanism is effective to pivot the second jaw into the

second, closed position when the head is disposed within the enlarged opening.

17. (Original) The implantable spinal cross-connector of claim 16, wherein the non-expandable

bore is threaded and the locking mechanism comprises a set screw having a threaded shank.

18. (Currently Amended) The implantable spinal cross-connector of claim 1, wherein the <u>first and</u>

second central portions comprises a substantially elongate members having an adjustable length.

19. (Currently Amended) The implantable spinal cross-connector of claim 18, wherein the <u>first and</u>

second central portions are substantially-elongate member is formed from first and second transverse

members that are slidably matable to one another.

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20. (Original) The implantable spinal cross-connector of claim 19, wherein the first transverse member includes a female mating element, and the second transverse member includes a male mating element that is adapted to be received by the female mating element.

- 21. (Original) The implantable spinal cross-connector of claim 20, further comprising a central locking mechanism for locking the first and second transverse members at a fixed position with respect to one another.
- 22. (Original) The implantable spinal cross-connector of claim 19, wherein the first and second transverse members are angularly adjustable with respect to one another along a longitudinal axis of the spinal cross-connector.
- 23. (Original) The implantable spinal cross-connector of claim 22, wherein the first and second transverse members can be positioned at an angle of about 20° with respect to the longitudinal axis of the spinal cross-connector.
- 24. (Original) The implantable spinal cross-connector of claim 22, further comprising a central locking mechanism coupled to the first and second transverse members for allowing the first and second transverse members to be locked in a fixed position with respect to one another.
- 25. (Currently Amended) The implantable spinal cross-connector of claim 1, wherein the <u>first and second central portions comprise includes</u> first and second transverse members that are connected to one another by a central clamp that allows angular adjustment of the first and second transverse members with respect to one another along a longitudinal axis of the spinal cross-connector.
- 26. (Original) The implantable spinal cross-connector of claim 25, further comprising a central locking mechanism formed in the central clamp for locking the first and second transverse members in a fixed position with respect to one another.

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27. (Original) The implantable spinal cross-connector of claim 26, wherein the central locking

mechanism extends through the central clamp and each of the first and second transverse members, and

wherein the locking mechanism is adapted to engage and close the central clamp, thereby locking the

first and second transverse members therebetween.

28. (Currently Amended) The implantable spinal cross-connector of claim 1, wherein the at least

one connector member is angularly adjustable with respect to at least one of the first and second central

portions.

29. (Original) The implantable spinal cross-connector of claim 28, wherein the at least one

connector member includes a bend zone formed between the connector member and at least one of the

first and second central portions to allow angular movement of the connector member with respect to the

central portion.

30. (Withdrawn) The implantable spinal cross-connector of claim 1, further comprising first and

second connector members formed on opposed terminal ends of the central portion, and wherein the

central portion includes a bend zone formed at a substantial mid-point thereof for allowing angular

movement of each connector member with respect to the central portion.

31. (Original) The implantable spinal cross-connector of claim 1, wherein the first and second jaws

each include a clamping surface formed thereon that is adapted to seat a spinal rod therebetween.

32. (Original) The implantable spinal cross-connector of claim 31, wherein the clamping surface of

at least one of the first and second jaws includes at least one surface feature formed thereon to facilitate

engagement of a rod between the first and second jaws.

33. (Original) The implantable spinal cross-connector of claim 32, wherein the surface feature

comprises a series of ridges formed on the clamping surface.

34. (Original) The implantable spinal cross-connector of claim 1, wherein the central portion

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comprises first and second transverse members that are movable between an open position, in which the first and second transverse members are substantially longitudinally aligned with one another, and a second position, in which the first and second transverse members are positioned at an angle with respect to one another.

- 35. (Withdrawn) The implantable spinal cross-connector of claim 34, wherein the first and second members are biased to the second position.
- 36. (Original) The implantable spinal cross-connector of claim 1, wherein the spinal fixation element comprises a spinal rod.
- 37. (Currently Amended) An implantable spinal cross-connector, comprising:

  first and second elongate members longitudinally slidably matable to one another;

  at least one connector member being unitary with a terminal end of at least one of the first and second an elongate members and having first and second opposed jaws that are biased to an open position, in which at least a portion of the first and second jaws are spaced apart from one another, the

first and second opposed jaws including a bore formed therein, a portion of the bore formed in the second jaw being threaded; and

a threaded locking mechanism effective to mate with the threaded portion of the bore in the second jaw to move at least one of the first and second jaws toward one another into a closed position, in which the jaws are effective to engage a spinal fixation element therebetween.

- 38. (Cancelled).
- 39. (Previously Presented) The implantable spinal cross-connector of claim 37, wherein the first and second opposed jaws are at least partially separated by an elongate slot, and wherein the bore extends across the elongate slot.
- 40-50. (Cancelled).